T E A M # 1 The University of Texas at Dallas



O W N E R Bill McBeath

DATE 08/01/2023

PRESENTED BY Daniel Morris, Nasif Nahian, Akash Tyagi, Jimmy Nguyen, & Akash Navneeth

TABLE OF CONTENTS



UΖ

03

ABOUT Brief description of Chainlink Research

VISION & MISSION

OUR TEAM

Team #1

Aims and values of Team #1 and statement

Introducing the team members of



GOAL

Our desired result



PROBLEM

Addressing the issues faced



SOLUTION How we tackled the problem



EXECUTIVE SUMMARY

Overview of the project



DISCUSSION/ASSEMBLY Communication and Development



RESPONSIVE DESIGN

Defining responsive design and why is it important



SECURITY

Importance of Web Security



OUR IMPACT How did we affect ChainLink



REFLECTION What does this project means to us



ABOUT

Founded in 2003 by practitioners and researchers, the company has established a reputation for pre-science, depth and quality of research, and innovative insight.

ChainLink does in depth industry specific research and has developed specific supply chain models. Conducting both primary research and secondary research.









VISION

Our vision is to foster a culture of continuous improvement, collaboration, and adaptability. Together, we strive to make a positive impact, inspire change, and become a trusted partner for our stakeholders and teammates.

Our mission is to work collaboratively and deliver results through our combined expertise and dedication. By leveraging our diverse perspectives and skills, we aim to solve complex problems and achieve shared goals. Committed to making a lasting impact and leaving a positive legacy in our field.





MISSION





OUR TEAM



SECURITY LEAD

Daniel Morris



PROJECT LEAD Jimmy Nguyen



SECURITY MEMBER

Nasif Nahian



PROJECT CO-LEAD Akash "Naveen" Navneeth



SECURITY MEMBER

Akash Tyagi



The primary objectives of the project were to enhance web security and user experiences across devices through effective security measures and responsive design techniques.

To achieve these project objectives, we conducted a thorough security analysis, implemented security measures, and utilized the principles of responsive design to enhance the website.

EXECUTIVE - SUMMARY



-Alan Cooper

• Help ChainLink create a more secure and stable platform by using WordPress as the current foundation

 Improving the user experience in order to reduce friction between website and mobile applications

• Our goal is to do our due diligence and meet the standards of our peers and our sponsor. We will do our best and complete all expected deliverables.

"If we want users to like our software. We should design it to behave like a likeable person; respectful, generous and helpful"

PROBLEM



- Clean up images.
- Security assessment, vulnerability assessment, make and implement recommendations.
 - Research security practices.
 - Review ChainLink website to determine actions needed
 - Create a set of recommendations
 - Review and determine recommendations to implement
 - Implement prioritized recommendations
 - Conduct penetration testing and other types of security testing to find vulnerabilities
 - Fix vulnerabilities

- Define and execute QA tests.
 - Assess possibility for automated testing, and implement if feasible.
- Fix bugs, fix parking lot issues, implement parking lot enhancements
- Accessibility assessment and recommendations
- SEO make recommendations and implement
- Performance testing and improvements
- Responsive design
- Setup user commenting on articles



SOLUTION

Subject Tasks Into Manageable Parts:

- Why?
 - Limited time to complete project
 - Individuals have other commitments
 - A single task will take the entire semester to complete

• Priority:

- Responsive Design
- Security
 - Experience with developing security measures
 - Eagerness to learn and develop measures for ChainLink



Progression / Documentation

- Progress is documented through a designated database
- Recommendations needed to be thoroughly researched and were presented to ChainLink to ensure that it aligns with project needs
- etc.

COMMUNICATION

MEETINGS

- Weekly meeting with project manager and team members
- Ensure constructive feedback
- GroupMe/Emails/MSTeams/Zoom
- Tracking weekly progression

DEVELOPMENT

Work and Collaboration

- Responsive Design Team
 - Jimmy Nguyen, Akash Navneeth
- Security Team
- Daniel Morris, Nasif Nahian, Akash Tyagi
 Worked more as two independent groups pertaining to the two categories, while still communicating as a team on assessments and issues

Implementation

- Discussed as a team
- Recommendations and implications must be verified

CHAINLINK RESEARCH TEAM #1





DISSCUSSION/ ASSEMBLY





RESPONSIVE DESIGN



What is Responsive Design?

What did we tackle?

What we couldn't solve...

• An approach that addresses the range of devices and device sizes, enabling automatic adaption to the screen to ensure usability and satisfaction

• Ensure that images rendered correctly and is visible to different types of displays • Display and alignment of content is consistent • Render text legibly on all scales • Keep content within their containers Display and resize images as needed

• Tables created by WordPress made it difficult to format, when it came to smaller displays • Requires a more technical approach through CSS and HTML

WEEKLY RESPONSIVE DESIGN ARTICLES COMPLETED



WEEK #

RESPONSIVE DESIGN ARTICLES FIXED OVER TIME



WEEK #



Why is security so important?

- Prevents hackers and cyber-thieves from accessing sensitive information
- Without a security strategy, it would risk the spread of malware, attacks on the website, networks, and other IT infrastructures that were created.

Our Recommendations

- MFA
- Site Backup
- Limiting Login Attempts
- ETC.

CHAINLINK RESEARCH TEAM #1

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- Enabled Auto updates
- Audited Word Press Plug-ins
- Disaster Recover plan Steps for recovery actions
- Change default admin site URL

CONTINUED...

- Utilized WordPress plugins and settings
- User testing
- Auto Logout Activity
- Limit account login attempts

CONTINUED...

• Enabling MFA for admin site

User testing

Prepare Disaster Scenario

Propose potential solutions

IMPACT

What we hope to leave behind

- Provide ChainLink a more stable platform that allows users a smoother experience
- Ensuring that ChainLink is more secure
- Measures taken to secure a website from cyberattacks
- Ensures that users can access and interact ChainLink's website easily and comfortably, regardless of the device they use





REFLECTION



What this project means for us

- careers

What we got out of it

- Experience in a professional work environment
- Developing new skills in the technical industry

• A chance to develop our own individual skill sets • Grateful to ChainLink for providing us an opportunity • Insight to a technical field that would carry on to our future

• Working in a collaborative environment that allowed us to develop stronger communication skills and teamwork



TEAM # 1 The University of Texas at Dallas



QUESTIONS?

OWNER Bill McBeath

DATE 08/01/2023



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